

```

kiit@BT-21052778:~$ ls
802.c 192.c 204.c 293.c 304.c Documents a.out file large.c min.c oe.c pattern.c prime.c q3.c small.c tdl.c year.c
803.c 192.c.save 204.ctc 294.c 305.c Downloads avg.c func.c lead.c myfilel p.c save perfect.c q1.c save sa.c swap.c velocity.c wheatstone.c
121.c 193.c 205.c 295.c 305.c.save Music basicsalary.c gcc leap.c nano.save p.c.save pendulum.c q1.c ram sum.c thinclient_drives
122.c 194.c 206.c 3.c 306.c Pictures ch.c gcd.c lowercase.c nano.save.1 p.c.save.1 perfect.c q1.c.save s.c sum.c.save triangle.c
123.c 201.c 21052778 301.c 307.c Public double.c grade.c lowercase.c.save nod.c palindrome.c pm.c q1.c.save.1 sa.c swap.c velocity.c
124.c 202.c 201.c 302.c 9.c Templates fact.c great.c lowercase.c.save.1 number. palindrome.c.save power.c q1.c.save.2 sieram swap.cy wheatstone.c
191.c 203.c 292.c 303.c Desktop Videos fibonacci.c int.c lowercase.c.save.2 odd.c password.c prime q2.c sign.c tdl.c wheatstone.c.save
kiit@BT-21052778:~$ ls -R
802.c 192.c 204.c 293.c 304.c Documents a.out file large.c min.c oe.c pattern.c prime.c q3.c small.c tdl.c year.c
803.c 192.c.save 204.ctc 294.c 305.c Downloads avg.c func.c lead.c myfilel p.c pattern.c q1 q5.c sod.c temp.c
121.c 193.c 205.c 295.c 305.c.save Music basicsalary.c gcc leap.c nano.save p.c.save pendulum.c q1.c ram sum.c thinclient_drives
122.c 194.c 206.c 3.c 306.c Pictures ch.c gcd.c lowercase.c nano.save.1 p.c.save.1 perfect.c q1.c.save s.c sum.c.save triangle.c
123.c 201.c 21052778 301.c 307.c Public double.c grade.c lowercase.c.save nod.c palindrome.c pm.c q1.c.save.1 sa.c swap.c velocity.c
124.c 202.c 291.c 302.c 9.c Templates fact.c great.c lowercase.c.save.1 number. palindrome.c.save power.c q1.c.save.2 sieram swap.cy wheatstone.c
191.c 203.c 292.c 303.c Desktop Videos fibonacci.c int.c lowercase.c.save.2 odd.c password.c prime q2.c sign.c tdl.c wheatstone.c.save
./21052778:
./Desktop:
./Documents:
./Downloads:
./Music:
./Pictures:
./Public:
./Templates:
./Videos:
./sieram:
./thinclient_drives:

```

```

kiit@BT-21052778:~$ mkdir new_directory
kiit@BT-21052778:~$ ls
802.c 192.c.save 205.c 3.c 307.c Templates fibonacci.c large.c myfilel p.c pendulum.c q1.c.save sa.c swap.cy wheatstone.c.save
803.c 193.c 206.c 301.c 9.c Videos file lead.c nano.save p.c perfect.c q1.c.save.1 sieram tdl.c year.c
121.c 194.c 21052778 302.c Desktop a.out func.c leap.c nano.save.1 p.c.save.1 pm.c q1.c.save.2 sign.c tdl.c
122.c 201.c 291.c 303.c Documents avg.c gcc lowercase.c new_directory palindrome.c power.c q2.c small.c temp.c
123.c 202.c 292.c 304.c Downloads basicsalary.c gcd.c lowercase.c.save nod.c palindrome.c.save prime q3.c sod.c thinclient_drives
124.c 203.c 293.c 305.c Music ch.c grade.c lowercase.c.save.1 number. password.c prime q3.c sum.c triangle.c
191.c 204.c 294.c 305.c.save Pictures double.c great.c lowercase.c.save.2 odd.c pattern.c q1 ram sum.c.save velocity.c
192.c 204.ctc 295.c 306.c Public fact.c int.c min.c oe.c pattern.c q1.c s.c swap.c wheatstone.c

```

NetId	State	Recv-Q	Send-Q	Local Address:Port	Peer Address:Port	Process
v_str	ESTAB	0	0	*:557621817	2:50000	
v_str	ESTAB	0	0	*:557621818	2:50000	
v_str	ESTAB	0	0	*:557621819	2:50000	
v_str	ESTAB	0	0	*:557621820	2:50001	
v_str	ESTAB	0	0	*:557621821	2:50000	
v_str	ESTAB	0	0	*:557621823	2:50000	
v_str	ESTAB	0	0	*:557621824	2:50001	
v_str	ESTAB	0	0	*:557621825	2:50001	
v_str	ESTAB	0	0	*:557621830	2:1872140626	
v_str	ESTAB	0	0	*:557621830	2:1872140625	
v_str	ESTAB	0	0	*:557621830	2:1872140624	
v_str	ESTAB	0	0	*:557621830	2:1872140623	
v_str	ESTAB	0	0	*:557621829	2:1872140622	

```

kiit@BT-21052778:/mnt/c/WINDOWS/system32$ sudo apt-get update
[sudo] password for kiit:
Err:1 http://archive.ubuntu.com/ubuntu focal InRelease
Temporary failure resolving 'archive.ubuntu.com'
Err:2 http://security.ubuntu.com/ubuntu focal-security InRelease
Temporary failure resolving 'security.ubuntu.com'
Err:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Temporary failure resolving 'archive.ubuntu.com'
Err:4 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Temporary failure resolving 'archive.ubuntu.com'
Reading package lists... Done
W: Failed to fetch http://archive.ubuntu.com/ubuntu/dists/focal/InRelease Temporary failure resolving 'archive.ubuntu.com'
W: Failed to fetch http://archive.ubuntu.com/ubuntu/dists/focal-updates/InRelease Temporary failure resolving 'archive.ubuntu.com'
W: Failed to fetch http://archive.ubuntu.com/ubuntu/dists/focal-backports/InRelease Temporary failure resolving 'archive.ubuntu.com'
W: Failed to fetch http://security.ubuntu.com/ubuntu/dists/focal-security/InRelease Temporary failure resolving 'security.ubuntu.com'
W: Some index files failed to download. They have been ignored, or old ones used instead.

```



```

kiit@BT-21052778:/mnt/c/WINDOWS/system32$ sudo apt-get install packagename
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package packagename

```

```

kiit@BT-21052778:/mnt/c/WINDOWS/system32$ alias cls=clear
kiit@BT-21052778:/mnt/c/WINDOWS/system32$ cls

```

```
kiit@BT-21052778:~$ chown --help
```

```
Usage: chown [OPTION]... [OWNER][:[GROUP]] FILE...
```

```
or: chown [OPTION]... --reference=RFILE FILE...
```

Change the owner and/or group of each FILE to OWNER and/or GROUP.

With --reference, change the owner and group of each FILE to those of RFILE.

-c, --changes	like verbose but report only when a change is made
-f, --silent, --quiet	suppress most error messages
-v, --verbose	output a diagnostic for every file processed
--dereference	affect the referent of each symbolic link (this is the default), rather than the symbolic link itself
-h, --no-dereference	affect symbolic links instead of any referenced file (useful only on systems that can change the ownership of a symlink)
--from=CURRENT_OWNER:CURRENT_GROUP	change the owner and/or group of each file only if its current owner and/or group match those specified here. Either may be omitted, in which case a match is not required for the omitted attribute
--no-preserve-root	do not treat '/' specially (the default)
--preserve-root	fail to operate recursively on '/'
--reference=RFILE	use RFILE's owner and group rather than specifying OWNER:GROUP values
-R, --recursive	operate on files and directories recursively

The following options modify how a hierarchy is traversed when the -R option is also specified. If more than one is specified, only the final one takes effect.

-H	if a command line argument is a symbolic link to a directory, traverse it
-L	traverse every symbolic link to a directory encountered
-P	do not traverse any symbolic links (default)
--help	display this help and exit
--version	output version information and exit

Owner is unchanged if missing. Group is unchanged if missing, but changed to login group if implied by a ':' following a symbolic OWNER. OWNER and GROUP may be numeric as well as symbolic.

Examples:

chown root /u	Change the owner of /u to "root".
chown root:staff /u	Likewise, but also change its group to "staff".
chown -hR root /u	Change the owner of /u and subfiles to "root".

GNU coreutils online help: <<https://www.gnu.org/software/coreutils/>>

Report chown translation bugs to <<https://translationproject.org/team/>>

```
kiit@BT-21052778:~$ chown --help
Usage: chown [OPTION]... [OWNER][:[GROUP]] FILE...
  or:  chown [OPTION]... --reference=RFILE FILE...
Change the owner and/or group of each FILE to OWNER and/or GROUP.
With --reference, change the owner and group of each FILE to those of RFILE.
```

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-f, --silent, --quiet	suppress most error messages
-v, --verbose	output a diagnostic for every file processed
--dereference	affect the referent of each symbolic link (this is the default), rather than the symbolic link itself
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Report chown translation bugs to <<https://translationproject.org/team/>>

```
kiit@BT-21052778:~$ kill
kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]
```

```
kiit@BT-21052778:~$ kill
kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]
kiit@BT-21052778:~$ whoami
kiit
kiit@BT-21052778:~$ fdisk
fdisk: bad usage
Try 'fdisk --help' for more information.
kiit@BT-21052778:~$ nohup
nohup: missing operand
Try 'nohup --help' for more information.
```



```
ali@01-21052778:~$ dmesg
0.000000 Linux version 5.10.16.3 microsoft-standard-WSL2 (oe-user@oe-host) (x86_64-wsl-linux-gcc (GCC) 9.3.0, GNU ld (GNU Binutils) 2.34.0.20200220) #1 SMP Fri Apr 2 22:23:49 UTC 2021
0.000000 Command line: initrd=initrd.img panic=1 nr_cpus=16 swiotlb=force pty_legacy_count=0
0.000000 KERNEL supported cpus:
0.000000 Intel GenuineIntel
0.000000 AMD AuthenticAMD
0.000000 Centaur CentaurHauls
0.000000 x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
0.000000 x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
0.000000 x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
0.000000 x86/fpu: xstate offset[2]: 576, xstate sizes[2]: 256
0.000000 x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, using 'compacted' format.
0.000000 BIOS-provided physical RAM map:
0.000000 BIOS-e820: [mem 0x0000000000000000-0x0000000000000fff] usable
0.000000 BIOS-e820: [mem 0x0000000000000000-0x0000000000000000] reserved
0.000000 BIOS-e820: [mem 0x0000000000100000-0x000000000001ffff] ACPI data
0.000000 BIOS-e820: [mem 0x0000000000200000-0x00000000007fffff] usable
0.000000 BIOS-e820: [mem 0x0000000010000000-0x000000001f39ffff] usable
0.000000 NX (Execute Disable) protection: active
0.000000 DMI not present or invalid.
0.000000 Hypervisor detected: Microsoft Hyper-V
0.000000 Hyper-V: features 0xae7f, privilege high: 0x3b8030, hints 0xc2c, misc 0xe0bed7b2
0.000000 Hyper-V Host Build:22000-10.0-1-0.1335
0.000000 Hyper-V: LAPIC Timer Frequency: 0x1e8480
0.000000 Hyper-V: Using hypercall for remote TLB flush
0.000000 clocksource: hyperv_clocksource_tsc_page: mask: 0xffffffffffffff max_cycles: 0x24e6a1710, max_idle_ns: 440795202120 ns
0.000000 tsc: Detected 1796.632 MHz processor
0.000010 e820: update [mem 0x00000000-0x00000fff] usable ==> reserved
0.000012 e820: remove [mem 0x000a0000-0x0000ffff] usable
0.000014 last_pfn = 0x1f3a00 max_arch_pfn = 0x400000000
0.000047 MTRR default type: uncachable
0.000048 MTRR fixed ranges enabled:
0.000049 00000-3ffff write-back
0.000049 40000-7ffff uncachable
0.000050 80000-bffff write-back
0.000050 90000-fffff uncachable
0.000051 MTRR variable ranges enabled:
0.000052 0 base 000000000000 mask fffff00000000 write-back
0.000053 1 base 000100000000 mask fffff00000000 write-back
0.000053 2 disabled
0.000054 3 disabled
0.000054 4 disabled
0.000054 5 disabled
0.000055 6 disabled
0.000055 7 disabled
0.000071 x86/PAT: Configuration [0-7]: WB UC UC UC WB WP UC-WT
0.000087 last_pfn = 0xf8000 max_arch_pfn = 0x400000000
0.000103 Using 60 pages for direct mapping
0.000513 RAPIDISK: [mem 0x03035000-0x03043fff]
```

```

kiit@BT-21052778:~$ du
4      ./Documents
4      ./sieram
4      ./landscape
4      ./Downloads
4      ./cache/gvfs
4      ./cache/evolution/tasks/trash
8      ./cache/evolution/tasks
4      ./cache/evolution/memos/trash
8      ./cache/evolution/memos
4      ./cache/evolution/sources/trash
8      ./cache/evolution/sources
4      ./cache/evolution/addressbook/trash
8      ./cache/evolution/addressbook
4      ./cache/evolution/calendar/trash
8      ./cache/evolution/calendar
4      ./cache/evolution/mail/trash
8      ./cache/evolution/mail
52     ./cache/evolution
8      ./cache/dconf
4      ./cache/mesa_shader_cache
360    ./cache/gstreamer-1.0
12     ./cache/fontconfig
4      ./cache/sessions
4      ./cache/mozilla/firefox/qwb2gj1l.default
34620  ./cache/mozilla/firefox/zkh0x1a6.default-release/cache2/entries
4      ./cache/mozilla/firefox/zkh0x1a6.default-release/cache2/doomed
34736  ./cache/mozilla/firefox/zkh0x1a6.default-release/cache2
15040  ./cache/mozilla/firefox/zkh0x1a6.default-release/startupCache
12     ./cache/mozilla/firefox/zkh0x1a6.default-release/settings/main/ms-language-packs
16     ./cache/mozilla/firefox/zkh0x1a6.default-release/settings/main
20     ./cache/mozilla/firefox/zkh0x1a6.default-release/settings
4      ./cache/mozilla/firefox/zkh0x1a6.default-release/thumbnails
9856   ./cache/mozilla/firefox/zkh0x1a6.default-release/safebrowsing/google4
11932  ./cache/mozilla/firefox/zkh0x1a6.default-release/safebrowsing
61768  ./cache/mozilla/firefox/zkh0x1a6.default-release
61776  ./cache/mozilla/firefox
61780  ./cache/mozilla
62228  ./cache
4      ./Templates
4      ./Desktop
4      ./Music
4      ./thinclient_drives
8      ./config/evolution/sources
12     ./config/evolution
8      ./config/dconf
4      ./config/ibus/bus
8      ./config/ibus
4      ./config/pulse

```

```

kiit@BT-21052778:~$ fsck
fsck from util-linux 2.24
fsck.ext4: Unable to resolve 'LABEL=clouding-rootfs'
kiit@BT-21052778:~$ cp
cp: missing file operand
try 'cp --help' for more information.
kiit@BT-21052778:~$ bzip2
bzip2: I won't write compressed data to a terminal.
bzip2: For help, type: 'bzip2 --help'.
kiit@BT-21052778:~$ echo $USER
kiit
kiit@BT-21052778:~$ echo $HOME
/home/kiit
kiit@BT-21052778:~$ echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/usr/lib/usb/lib:/mnt/c/Python310/Scripts:/mnt/c/Python310:/mnt/c/oracle/app/oracle/product/11.2.0/server/bin:/mnt/c/Program Files/Common Files/Oracle/Java/javapath:/mnt/c/WINDOWS/system32:/mnt/c/WINDOWS:/mnt/c/WINDOWS/System32/Wbem:/mnt/c/WINDOWS/System32/WindowsPowerShell/v1.0:/mnt/c/WINDOWS/System32/OpenSSH:/mnt/c/Program Files/dotnet:/mnt/c/Program Files/Cloudflare/Cloudflare WARP:/mnt/c/Windows/bin:/mnt/c/Users/K111/AppData/Local/Microsoft/WindowsApps:/mnt/c/Users/K111/AppData/Local/Programs/Microsoft VS Code/bin:/snap/bin

```

```
kiit@BT-21052778:~$ uname -a
Linux BT-21052778 5.10.16.3-microsoft-standard-WSL2 #1 SMP Fri Apr 2 22:23:49 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux
kiit@BT-21052778:~$ uname -s
Linux
kiit@BT-21052778:~$ uname -v
#1 SMP Fri Apr 2 22:23:49 UTC 2021
kiit@BT-21052778:~$ finger smith
```

Command 'finger' not found, but can be installed with:

```
sudo apt install finger
```

```
kiit@BT-21052778:~$ finger -p smith
```

Command 'finger' not found, but can be installed with:

```
sudo apt install finger
```

```
kiit@BT-21052778:~$ free
              total        used        free      shared  buff/cache   available
Mem:           7816052      117652       7374656          68       323744       7470032
Swap:          2097152           0       2097152
kiit@BT-21052778:~$ group smith
```

Command 'group' not found, did you mean:

```
command 'groups' from deb coreutils (8.30-3ubuntu2)
command 'grop' from deb grop (2:0.10-1.1build1)
```

Try: `sudo apt install <deb name>`

```
kiit@BT-21052778:~$ groups kiit
kiit : kiit adm dialout cdrom floppy sudo audio dip video plugdev netdev
kiit@BT-21052778:~$ w
 21:59:12 up 35 min,  0 users,  load average: 0.00, 0.00, 0.00
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU WHAT
kiit@BT-21052778:~$ w user
 21:59:18 up 35 min,  0 users,  load average: 0.00, 0.00, 0.00
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU WHAT
kiit@BT-21052778:~$ shutdown +1
System has not been booted with systemd as init system (PID 1). Can't operate.
Failed to connect to bus: Host is down
kiit@BT-21052778:~$ pwd -L
/home/kiit
kiit@BT-21052778:~$ pwd -P
pwd-P: command not found
```

```
kiit@BT-21052778:~$ ps -e
PID TTY          TIME CMD
  1 ?           00:00:00 init
 122 ?           00:00:00 init
 123 ?           00:00:00 init
 124 pts/0       00:00:00 bash
 183 pts/0       00:00:00 ps
kiit@BT-21052778:~$ declare var
kiit@BT-21052778:~$ var=kiit
kiit@BT-21052778:~$ declare -p
declare -- BASH="/bin/bash"
declare -r BASHOPTS="checkwinsize:cmdhist:complete_fullquote:expand_aliases:extglob:extquote:force_fignore:globasciiranges:histappend:interactive_comments:login_shell:progcomp:promptvars:sourcepath"
declare -i BASHPID
declare -A BASH_ALIASES=()
declare -a BASH_ARGC=([0]="0")
declare -a BASH_ARGV=()
declare -- BASH_ARGV0
declare -A BASH_CMDS=()
declare -- BASH_COMMAND
declare -a BASH_COMPLETION_VERSION=([0]="2" [1]="10")
declare -a BASH_LINENO=()
declare -a BASH_SOURCE=()
declare -- BASH_SUBSHELL
declare -- BASH_VERSION=([0]="5" [1]="0" [2]="17" [3]="1" [4]="release" [5]="x86_64-pc-linux-gnu")
declare -- BASH_VERSION="5.0.17(1)-release"
declare -- COLUMNS="211"
declare -- COMP_WORDBREAKS
declare -- DEFAULT_XDG_CONFIG_DIRS="/etc/xdg"
declare -- DEFAULT_XDG_DATA_DIRS="/usr/local/share:/usr/share/"
declare -a DIRSTACK=()
declare -- EPOCHREALTIME
declare -- EPOCHSECONDS
declare -i EUID="1000"
declare -a FUNCNAME
declare -a GROUPS=()
declare -i HISTCMD
declare -- HISTCONTROL="ignoreboth"
declare -- HISTFILE="/home/kiit/.bash_history"
declare -- HISTFILESIZE="2000"
```

```
kiit@BT-21052778:~$ bash
kiit@BT-21052778:~$ exec ls
862.c 192.c.save 205.c 3.c 307.c Templates fact.c int.c min.c oe.c pattern.c ql.c s.c swap.c velocity.c
863.c 193.c 206.c 301.c 9.c Videos fibonacc.c large.c myfile1 p.c pendulum.c ql.c.save sa.c swap.cy wheatstone.c
121.c 194.c 21052778 302.c Desktop a.out file load.c nano.save p.c.save perfect.c ql.c.save.1 s1eram t1.txt
122.c 201.c 291.c 303.c Documents avg.c func.c leap.c nano.save.1 p.c.save.1 pm.c ql.c.save.2 sign.c td.c year.c
123.c 202.c 292.c 304.c Downloads basicsalary.c gcc lowercase.c new_directory palindrome.c power.c q2.c small.c tdl.c
128.c 203.c 293.c 305.c Music ch.c pd.c lowercase.c.save nod.c palindrome.c.save prime q3.c sod.c temp.c
191.c 204.c 294.c 305.c.save Pictures double.c grade.c lowercase.c.save.1 number, password.c prime.c q5.c sum.c thinclient_drives
192.c 204.ctc 295.c 306.c Public ex2.txt great.c lowercase.c.save.2 odd.c pattern.c q1 ram sum.c.save triangle.c
kiit@BT-21052778:~$ awk '{print} hello.c'
awk: fatal: cannot open file 'hello.c' for reading (No such file or directory)
```